Information & Communication Technology Division

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Power On The Go For Telecommuting and Business Continuity

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Portable Solar System

Power On The Go For Telecommuting and Business Continuity

With the ongoing crises and the requirement for most people to work from home, one of the factors that impede our ability to telecommute is the lack of a reliable and stable power supply—especially in some cities or remote field locations with a weak or nonexistent public power grid.

To ensure business continuity, ICTD has used some existing products in the market to design 3 portal solar power kits that can generate enough clean electrical energy to power the essential equipment needed to work whilst away from the office. By essential equipment, we mean: 1 Laptop, 1 Mobile phone, 1 Satellite phone, and 1 VHF radio.

The 3 kits have been intentionally designed to be lightweight, quick to deploy and simple to operate. The size of the battery banks proposed in Kit 1 and Kit 2 is the maximum allowed for air freights as per IATA recommendations.

Below is a short description of each kit and its recommended use:

- Kit 1 – Suitable for use by mobile users that travel to a field location. The kit weighs 8kg and could be checked onboard a flight.
- Kit 2 – Suitable for telecommuting and can power essential work equipment whilst away from the office. The kit weighs 16kg,
- Kit 3 – Suitable for powering a small BCP alternate site requiring not more than 300Watts. Power capacity could be increased.

accesories

KIT 1

Specifications	Dimensions and weight	Image TP-solar 100W Foldable Solar Panel	Kit 1 - Immediate Responder Portable Power Kit
Nomad 100 Solar Panel 100 Watt (18-22V) Foldable and weatherproof solar panel Big wattage, chainable, and weighs only 10 lbs. For chaining multiple Nomad 100 solar panels together, purchase an 8mm to APP combiner cable	Dimensions (unfolded): 20.5 x 59.5 x 1 in Dimensions (folded): 20.5 x 15.5 x 2 in Weight: 10.2 lbs. (4.6 kg) Cost: USD 400		This Kit can provide power for a laptop, cellphone, sat phone and VHF radio for the entire day. The total weigh is approximately 18 Lb. (8kg) We're including the cables you need to get the job done, and an incredibly easy way to store them for later. Includes Lightning, Micro USB, USB-C, and USB-C to USB-C. **Two High-Speed Power Delivery Ports** At 60W each, these USB-C Power Delivery ports provide rapid power for laptops, phones, and more.
Goal Zero Sherpa 100 AC Portable Power Bank 94.72Wh power bank Two Power Delivery Ports, at 60W each **Qi Wireless Charging + 2.4A USB**	Dimensions: 7.5 x 5.7 x 1 inches Weight: 2 lbs. (1kg) Cost: USD 300		

Keep your Sherpa 100AC safe during travel in this sturdy, form-fitting sleeve.	Dimensions: 6.25 x 8.5 x .05 in Weight: 2 oz (0.06kg) Cost: USD 10		
Goal Zero 15ft 8mm Extension Cable for Yeti, Boulder and Nomad Products Not compatible with Boulder 200 Briefcase Solar panel 8mm input - Goal Zero proprietary connection 8mm output connection	Cable length: 15Ft Cost: USD 17		
USB 2.0 Type-C Charge & Sync Cable for your USB Type-C devices. Tt supports up to 3A of power output, which allows you to recharge your laptop	Length 6 feet Cost USD 11		
Accessories - Good to have			
1 Watt USB Stick Light that is handy to illuminate anything from a keyboard to a tent. Turn the Luna Touch on/off by simply touching the end of the stick.	Dimensions: 18 x 0.34 in Weight: 1.6 oz (0.05kg) Cost USD: 10		

Tether Tools ONsite USB-C 61W Wall Charger Includes US, UK, EU, AU adapters power to Sherpa 100AC Power Bank to reduce recharge times Compatible with other USB-C devices.	Dimensions: 2.4 x 2.4 x 1.2 in Weight: 4.48oz (0.2kg) Cost: USD 35		
USB-C Cable 10ft, Braided USB-C to USB-C Fast Charging Cable (60W/ 3A)	Cost: USD 11		
LinkOn Car Charger 63W USB	Cost: USD 27		

KIT 2

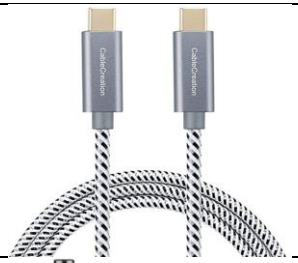
Specifications	Dimensions and weight	Image TP-solar 100W Foldable Solar Panel	Kit 2 – recommended for staff working from home
Lightweight, 100-watt monocrystalline solar panel with briefcase folding enclosure Features rigid, anodized aluminum and tempered glass construction Ideal for camping, emergency, or off-grid situations	Dimensions: 40.0 x 26.75 x 1.75 in Weight: 25.9 lbs. (12kg) Cost: USD 300		This Kit can provide power for a laptop, cellphone, sat phone and VHF radio for the entire day. The total weigh is approximately 24lbs (16kg) We're including the cables you need to get the job done, and an incredibly easy way to store them for later. Includes Lightning, Micro USB, USB-C, and USB-C to USB-C. **Two High-Speed Power Delivery Ports** At 60W each, these USB-C Power Delivery ports provide rapid power for laptops, phones, and more.
Goal Zero Sherpa 100 AC Portable Power Bank 94.72Wh power bank Two Power Delivery Ports, at 60W each **Qi Wireless Charging + 2.4A USB**	Dimensions: 7.5 x 5.7 x 1 inches Weight: 2 lbs. (1kg) Cost: USD 300		

Keep your Sherpa 100AC safe during travel in this sturdy, form-fitting sleeve.	Dimensions: 6.25 x 8.5 x .05 in Weight: 2 oz (0.06kg) Cost: USD 10		
8MM INPUT 30FT EXTENSION CABLE	Cable length: 30Ft Cost: USD 25		
USB 2.0 Type-C Charge & Sync Cable for your USB Type-C devices. Tt supports up to 3A of power output, which allows you to recharge your laptop	Length 6 feet Cost USD 11		
Accessories - Good to have			
1 Watt USB Stick Light that is handy to illuminate anything from a keyboard to a tent. Turn the Luna Touch on/off by simply touching the end of the stick.	Dimensions: 18 x 0.34 in Weight: 1.6 oz (0.05kg) Cost USD: 10		

Tether Tools ONsite USB-C 61W Wall Charger Includes US, UK, EU, AU adapters power to Sherpa 100AC Power Bank to reduce recharge times Compatible with other USB-C devices.	Dimensions: 2.4 x 2.4 x 1.2 in Weight: 4.48oz (0.2kg) Cost: USD 35		

KIT 3

Specifications	Dimensions and weight	Image TP-solar 350W fixed Solar Panel	Kit 3 – recommended for Business continuity sites with small network.
2 Polycrystalline Solar Panels Ground or Roof Mount solutions Power box with 2 AGM batteries Smart Solar MPPT Charge Controller 100/50 & 100/30 Cables and fittings Assembly Instructions Assembly Toolset	The weight depends on the specification of the provider		The base of the Kit is 350 W but it can be extented as per the site needs. This system can be ordered through Danimex , link below : https://danimex.com/products?ProductID=PROD1119 Note : This kit can be made available by **Redondo y Garcia** Solar Power System provider (**LTA ref.S0009060**)
12/500 Inverter	Weight: 9.55 lbs (4.5kg)		Inverter
Accessories - Good to have			
Install Bay CLA Cigarette Lighter Adapter Female Plug, BLACK			Use the 12 volt from the battery to gorvete in a car cahrger for all equipment

USB-C Cable 10ft, Braided USB-C to USB-C Fast Charging Cable (60W/ 3A)	Cost: USD 11		
LinkOn Car Charger 63W USB	Cost: USD 27		Use the 12 volt from the battery to carge: - Laptop - Cellphone - Staphone - VHF Radios